

## ANOMALOUS DATA

This section identifies data that have been determined to be erroneous and removed from the final data set by the 2003 Rescue Project Data Manager or NERR Technicians, provides justification for the removal of the inaccurate data, and identifies “questionable” data. Questionable or suspect data are data that may be compromised in quality but remain in the data set. Wherever possible, both questionable and erroneous data are correlated with information from relevant documentation that may help to explain any problems with the data. The user should evaluate and use these data with caution. Data that have been removed from the final data set are still present in unedited and/or raw data files. Please see the FGDC compliant metadata document for more information on the quality assurance/quality control procedures used to identify erroneous or suspect data. The following information is organized by parameter within each year.

### Water Quality data were collected at Debidue Creek for the following dates:

03/05/1998 – 12/31/2002

### 1998

#### All Variables

03/10/98 00:00 – 03/10/98 01:00	Questionable data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)
03/28/98 15:30	Questionable data (low depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)
03/29/98 04:00	Questionable data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)
03/29/98 15:30 – 03/29/98 16:30	Questionable data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)
03/30/98 04:30 – 03/30/98 05:00	Questionable data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)
03/30/98 16:30 – 03/30/98 17:00	Questionable data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)
03/31/98 17:00 – 03/31/98 17:30	Questionable data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)
04/01/98 18:00	Questionable data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)
04/04/98 20:30	Questionable data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)
04/09/98 13:00 – 04/09/98 13:30	Questionable data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)
04/10/98 00:30 – 04/10/98 02:30	Questionable data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)
04/10/98 13:00	Questionable data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)
04/27/98 04:30	Questionable data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)
04/27/98 16:00 – 04/27/98 17:00	Questionable data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)
04/29/98 12:00 - 05/07/98 13:00	2003 Data Manager removed erroneous data (the instrument’s mounting pipe was pulled up from the bottom during an extreme high tide and washed down stream several hundred yards, all parameters seemed affected to some extent: salinity, SpCond, pH, and DO in particular)
08/26/98 17:30 – 08/26/98 20:00	Questionable data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)
08/27/98 05:30	Questionable data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)
11/09/98 12:30 – 11/09/98 13:30	2003 Data Manager removed erroneous data (readings indicate that probes were out of the water)

**Specific Conductivity**

04/14/98 11:30 – 05/10/98 09:00 NERR Technician removed erroneous data (probe was calibrated in contaminated standard)

06/03/98 10:00 – 06/23/98 08:30 2003 Data Manager removed erroneous data (extremely high reading(s), probe was probably calibrated in contaminated standard)

11/11/98 13:30 – 11/23/98 10:30 2003 Data Manager removed erroneous data (extremely high reading(s), probe was probably calibrated in contaminated standard)

**Salinity**

04/14/98 11:30 – 05/10/98 09:00 NERR Technician removed erroneous data, probe was calibrated in contaminated standard

06/03/98 10:00 – 06/23/98 08:30 2003 Data Manager removed erroneous data (extremely high reading(s), probe was probably calibrated in contaminated standard)

11/11/98 13:30 – 11/23/98 10:30 2003 Data Manager removed erroneous data (extremely high reading(s), probe was probably calibrated in contaminated standard)

**Dissolved Oxygen %**

09/16/98 10:00 – 09/16/98 10:30 NERR Technician removed erroneous data (negative values)

09/16/98 12:30 – 09/16/98 13:30 NERR Technician removed erroneous data (negative values)

**Dissolved Oxygen mg/L**

04/14/98 11:30 – 05/10/98 09:00 2003 Data Manager removed erroneous data (conductivity probe was calibrated in contaminated standard, all affected parameters were removed)

06/03/98 10:00 – 06/23/98 08:30 2003 Data Manager removed erroneous data (conductivity probe was probably calibrated in contaminated standard, all affected parameters were removed)

09/16/98 10:00 – 09/16/98 10:30 NERR Technician removed erroneous data (negative values)

09/16/98 12:30 – 09/16/98 13:30 NERR Technician removed erroneous data (negative values)

11/11/98 13:30 – 11/23/98 10:30 2003 Data Manager removed erroneous data (conductivity probe was probably calibrated in contaminated standard, all affected parameters were removed)

**Depth**

04/14/98 11:30 – 05/10/98 09:00 2003 Data Manager removed erroneous data (conductivity probe was calibrated in contaminated standard, all affected parameters were removed)

06/03/98 10:00 – 06/23/98 08:30 2003 Data Manager removed erroneous data (conductivity probe was probably calibrated in contaminated standard, all affected parameters were removed)

11/11/98 13:30 – 11/23/98 10:30 2003 Data Manager removed erroneous data (conductivity probe was probably calibrated in contaminated standard, all affected parameters were removed)

**pH**

12/22/98 15:30 – 12/31/98 23:30 Questionable data (probe would not calibrate, reading(s) appear reasonable)

**Turbidity**

05/29/98 22:30 Questionable data (reading(s) greater than 1000)

06/19/98 04:30 Questionable data (reading(s) greater than 1000)

06/20/98 12:30 Questionable data (reading(s) greater than 1000)

06/23/98 08:00 Questionable data (reading(s) greater than 1000)

07/02/98 04:00 Questionable data (reading(s) greater than 1000)

08/08/98 04:30 – 08/19/98 10:30 2003 Data Manager removed erroneous data (extremely high reading(s), often the same value, through the end of the deployment period)

09/03/98 08:00 – 09/13/98 07:00 Questionable data (probe was covered in algae when unit was collected, subsequent data were determined to be erroneous and removed)

09/13/98 07:30 – 09/21/98 09:00 NERR Technician removed erroneous data (extremely erratic reading(s), probe was covered in algae when unit was collected)

**1999**

**All Variables**

01/04/99 03:30 – 01/04/99 04:00 Questionable data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)

03/04/99 03:30 Questionable data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)

05/25/99 15:30 – 06/14/99 11:00 All probes were fouled when unit was collected at the end of the deployment, readings appear reasonable and were retained

07/24/99 10:30 – 08/10/99 11:00 All probes were fouled when unit was collected at the end of the deployment, readings appear reasonable and were retained

08/10/99 11:30 – 08/19/99 08:00 NERR Technician removed erroneous data (high tide uprooted PVC mounting tube)

08/19/99 08:30 – 09/01/99 12:00 All probes were fouled when unit was collected at the end of the deployment, readings appear reasonable and were retained

**Dissolved Oxygen % and mg/L**

05/12/99 16:00 - 05/24/99 08:30 2003 Data Manager removed erroneous data (very high DO reading(s), possible membrane puncture)

08/02/99 21:00 - 08/10/99 11:00 2003 Data Manager removed erroneous data (very high DO reading(s), possible membrane puncture)

**Turbidity**

04/03/99 00:00 Questionable data (reading(s) greater than 1000)

04/14/99 00:00 Questionable data (reading(s) greater than 1000)

04/22/99 01:30 Questionable data (negative reading(s), within known calibration error)

05/04/99 23:30 Questionable data (negative reading(s), within known calibration error)

07/25/99 08:00 Questionable data (reading(s) greater than 1000)

07/25/99 16:00 Questionable data (reading(s) greater than 1000)

07/28/99 09:30 Questionable data (reading(s) greater than 1000)

08/02/99 21:00 – 08/04/99 19:30 Questionable data (reading(s) began climbing around this time, the data following this period were determined to be erroneous and deleted, the DO data were also erroneous during this time.

08/04/99 20:00 – 08/10/99 11:00 2003 Data Manager removed erroneous data (extremely high reading(s), often the same value, probe was probably covered in algae or an animal may have been living in the probe compartment)

08/29/99 21:00 Questionable data (reading(s) greater than 1000)

09/12/99 15:30 – 09/14/99 20:30 Questionable data (reading(s) began climbing around this time, the data following this period were determined to be erroneous and deleted)

09/14/99 21:00 – 09/22/99 09:00 2003 Data Manager removed erroneous data (extremely high reading(s), often the same value, probe was probably covered in algae or an animal may have been living in the probe compartment)

**2000****All Variables**

01/05/00 00:30 2003 Data Manager removed erroneous data (readings indicate that probes were out of the water)

01/05/00 01:00 NERR Technician removed erroneous data (probes out of water)

01/16/00 21:00 – 01/16/00 23:00 NERR Technician removed erroneous data (probes out of water)

01/20/00 14:00 – 01/20/00 14:30 Questionable Data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)

01/25/00 18:00 NERR Technician removed erroneous data (probes out of water)

02/11/00 17:30 – 02/11/00 18:30 NERR Technician removed erroneous data (probes out of water)

02/14/00 20:00 – 02/14/00 22:30 NERR Technician removed erroneous data (probes out of water)

02/16/00 23:00 – 02/17/00 00:00 NERR Technician removed erroneous data (probes out of water)

02/19/00 01:30 – 02/19/00 02:00 NERR Technician removed erroneous data (probes out of water)

02/19/00 14:30 – 02/19/00 15:00 NERR Technician removed erroneous data (probes out of water)

02/20/00 02:00 – 02/20/00 03:30	NERR Technician removed erroneous data (probes out of water)
03/06/00 02:00	NERR Technician removed erroneous data (probes out of water)
03/08/00 03:30	NERR Technician removed erroneous data (probes out of water)
03/08/00 15:30 – 03/08/00 16:30	NERR Technician removed erroneous data (probes out of water)
03/09/00 04:00 – 03/09/00 04:30	NERR Technician removed erroneous data (probes out of water)
03/09/00 16:30 – 03/09/00 17:00	NERR Technician removed erroneous data (probes out of water)
03/10/00 05:00 – 03/10/00 05:30	NERR Technician removed erroneous data (probes out of water)
03/10/00 17:00 – 03/10/00 17:30	NERR Technician removed erroneous data (probes out of water)
03/12/00 06:30 – 03/12/00 08:00	NERR Technician removed erroneous data (probes out of water)
03/12/00 17:30 – 03/12/00 19:30	NERR Technician removed erroneous data (probes out of water)
03/17/00 12:00 – 03/17/00 13:00	NERR Technician removed erroneous data (probes out of water)
03/18/00 00:30	2003 Data Manager removed erroneous data (readings indicate that probes were out of the water)
04/04/00 02:00	NERR Technician removed erroneous data (probes out of water)
04/04/00 13:30 – 04/04/00 15:00	NERR Technician removed erroneous data (probes out of water)
04/05/00 01:30 – 04/05/00 03:00	NERR Technician removed erroneous data (probes out of water)
04/05/00 14:30 – 04/05/00 15:00	NERR Technician removed erroneous data (probes out of water)
04/06/00 15:00 – 04/06/00 16:00	NERR Technician removed erroneous data (probes out of water)
04/07/00 04:00 – 04/07/00 04:30	NERR Technician removed erroneous data (probes out of water)
04/07/00 16:00 – 04/07/00 16:30	NERR Technician removed erroneous data (probes out of water)
04/08/00 17:00 – 04/08/00 17:30	NERR Technician removed erroneous data (probes out of water)
04/09/00 05:00 – 04/09/00 07:00	NERR Technician removed erroneous data (probes out of water)
04/09/00 18:00	2003 Data Manager removed erroneous data (readings indicate that probes were out of the water)
06/10/00 14:30 – 06/22/00 10:30	Bad time stamp, NERR Technician changed times (for example 14:30 is actually 14:15:49)
06/29/00 12:00	2003 Data Manager removed erroneous data (readings indicate that probes were out of the water)
10/05/00 12:30 – 10/19/00 10:00	Bad time stamp, NERR Technician changed times (for example 10:00 is actually 10:12:00)
11/21/00 23:00 – 11/21/00 23:30	2003 Data Manager removed erroneous data (readings indicate that probes were out of the water)
11/23/00 00:00	2003 Data Manager removed erroneous data (readings indicate that probes were out of the water)
12/17/00 19:00 – 12/17/00 20:00	NERR Technician removed erroneous data (probes out of water)
12/23/00 00:00 – 12/23/00 00:30	NERR Technician removed erroneous data (probes out of water)

**Specific Conductivity**

09/18/00 17:30 – 09/27/00 04:00	Documentation: periodic rainfall throughout the end of September probably resulted in fairly low salinity and SpCond reading(s)
10/01/00 00:00 – 10/31/00 – 23:30	Documentation: extremely low rainfall for the entire month of October may have caused unusually high salinity and SpCond reading(s)

**Salinity**

09/18/00 17:30 – 09/27/00 04:00	Documentation: periodic rainfall throughout the end of September probably resulted in fairly low salinity and SpCond reading(s)
10/01/00 00:00 – 10/31/00 23:30	Documentation: extremely low rainfall for the entire month of October may have caused unusually high salinity and SpCond reading(s)

**Dissolved Oxygen % and mg/L**

01/14/00 14:00 – 02/03/00 08:00	2003 Data Manager removed erroneous data (reading(s) were extremely high during the entire deployment, membrane may have been improperly installed or punctured during deployment)
07/18/00 19:30 – 07/31/00 08:00	2003 Data Manager removed erroneous data (reading(s) were extremely high during the entire deployment, membrane may have been improperly installed or punctured during deployment)

08/11/00 17:30 – 08/22/00 10:30 NERR Technician removed skewed data, membrane was damaged

### **pH**

08/22/00 11:00 – 08/31/00 08:30 NERR Technician removed erroneous data (suspected probe failure, calibration constants were off)

### **Turbidity**

01/01/00 00:00 – 03/13/00 08:00 Questionable data (turbidity readings during this period appeared to “drift” upward at the end of each deployment, these data should be used with caution)

01/16/00 10:30 Questionable data (negative reading(s), within known calibration error)

01/16/00 20:00 Questionable data (negative reading(s), within known calibration error)

01/19/00 19:00 – 02/09/00 13:30 NERR Technician removed erroneous data (reading(s) greater than 1000, attributed to a wiper blade malfunction)

02/01/00 00:00 – 02/03/00 08:00 NERR Technician removed erroneous data (reading(s) greater than 1000, attributed to a wiper blade malfunction)

02/23/00 02:30 – 02/28/00 14:00 Questionable data (reading(s) began climbing around this time, possible calibration or drift problem)

03/10/00 02:00 – 03/13/00 08:00 Questionable data (reading(s) began climbing around this time, the data following this period were determined to be erroneous and deleted)

03/13/00 08:30 – 03/20/00 13:00 2003 Data Manager removed erroneous data (reading(s) climbed steadily to unbelievably high values through the end of this deployment period, possible algal fouling)

03/20/00 13:30 – 05/19/00 12:30 NERR Technician removed erroneous data (probe failure)

08/01/00 08:00 – 08/10/00 16:00 Questionable data (reading(s) are consistently much lower than in any other deployment period, possible probe malfunction)

08/11/00 20:00 Questionable data (reading(s) greater than 1000)

08/12/00 21:00 Questionable data (reading(s) greater than 1000)

08/26/00 05:30 Questionable data (negative reading(s), within known calibration error)

10/14/00 09:00 Questionable data (negative reading(s), within known calibration error)

10/14/00 15:30 Questionable data (negative reading(s), within known calibration error)

11/01/00 00:00 – 11/08/00 09:30 NERR Technician removed erroneous data (greater than 1000, attributed to growth of filamentous algae on probe; wiper was not 180 degrees upon retrieval)

11/09/00 11:30 – 11/27/00 09:00 NERR Technician removed erroneous data (wiper blade fell off during the deployment)

## **2001**

### **All Variables**

01/05/01 22:00 – 01/05/01 23:30 NERR Technician removed erroneous data (probes out of water)

01/08/01 00:00 – 01/08/01 00:30 NERR Technician removed erroneous data (probes out of water)

01/10/01 15:30 2003 Data Manager removed erroneous data (readings indicate that probes were out of the water)

01/11/01 02:30 – 01/11/01 04:00 NERR Technician removed erroneous data (probes out of water)

01/11/01 16:30 NERR Technician removed erroneous data (probes out of water)

01/12/01 03:30 – 01/12/01 05:00 NERR Technician removed erroneous data (probes out of water)

01/12/01 17:00 NERR Technician removed erroneous data (probes out of water)

01/20/01 22:00 – 01/21/01 02:00 NERR Technician removed erroneous data (probes out of water)

01/21/01 11:30 – 01/21/01 12:30 NERR Technician removed erroneous data (probes out of water)

01/22/01 00:30 2003 Data Manager removed erroneous data (readings indicate that probes were out of the water)

01/30/01 16:30 – 01/30/01 19:00 NERR Technician removed erroneous data (probes out of water)

01/31/01 05:30 – 01/31/01 07:30 NERR Technician removed erroneous data (probes out of water)

01/31/01 17:30 – 01/31/01 20:00 NERR Technician removed erroneous data (probes out of water)

02/01/01 06:30 – 02/01/01 08:00 NERR Technician removed erroneous data (probes out of water)

02/01/01 18:30 – 02/01/01 19:30 NERR Technician removed erroneous data (probes out of water)

02/02/01 08:00 NERR Technician removed erroneous data (probes out of water)

02/02/01 19:00 – 02/02/01 21:30 NERR Technician removed erroneous data (probes out of water)

02/04/01 22:30 – 02/04/01 23:30	NERR Technician removed erroneous data (probes out of water)
02/05/01 11:00 – 02/05/01 12:30	NERR Technician removed erroneous data (probes out of water)
02/05/01 22:30 – 02/06/01 01:30	NERR Technician removed erroneous data (probes out of water)
02/06/01 12:30 – 02/06/01 14:00	NERR Technician removed erroneous data (probes out of water)
02/07/01 00:00 – 02/07/01 02:00	NERR Technician removed erroneous data (probes out of water)
02/07/01 13:30 – 02/07/01 14:30	NERR Technician removed erroneous data (probes out of water)
02/08/01 01:00 – 02/08/01 03:30	NERR Technician removed erroneous data (probes out of water)
02/08/01 14:30 – 02/08/01 16:00	NERR Technician removed erroneous data (probes out of water)
02/09/01 02:00 – 02/09/01 04:00	NERR Technician removed erroneous data (probes out of water)
02/09/01 15:00	2003 Data Manager removed erroneous data (readings indicate that probes were out of the water)
02/09/01 15:30 – 02/09/01 16:30	NERR Technician removed erroneous data (probes out of water)
02/10/01 02:30 – 02/10/01 05:30	NERR Technician removed erroneous data (probes out of water)
02/10/01 15:30 – 02/10/01 18:00	NERR Technician removed erroneous data (probes out of water)
02/11/01 03:30	2003 Data Manager removed erroneous data (readings indicate that probes were out of the water)
02/11/01 04:00 – 02/11/01 05:30	NERR Technician removed erroneous data (probes out of water)
02/13/01 06:00 – 02/13/01 07:00	NERR Technician removed erroneous data (probes out of water)
02/13/01 07:30	2003 Data Manager removed erroneous data (readings indicate that probes were out of the water)
02/13/01 17:30 – 02/13/01 19:00	NERR Technician removed erroneous data (probes out of water)
02/15/01 08:00	NERR Technician removed erroneous data (probes out of water)
02/17/01 10:00 – 02/17/01 10:30	NERR Technician removed erroneous data (probes out of water)
02/21/01 00:00	2003 Data Manager removed erroneous data (readings indicate that probes were out of the water)
02/21/01 00:30 – 02/21/01 01:00	NERR Technician removed erroneous data (probes out of water)
02/26/01 03:30	2003 Data Manager removed erroneous data (readings indicate that probes were out of the water)
02/26/01 04:00	NERR Technician removed erroneous data (probes out of water)
02/26/01 16:00 – 02/26/01 16:30	NERR Technician removed erroneous data (probes out of water)
03/02/01 18:00 – 03/02/01 19:30	NERR Technician removed erroneous data (probes out of water)
03/05/01 09:30 – 03/05/01 11:30	NERR Technician removed erroneous data (probes out of water)
03/05/01 21:30 – 03/05/01 23:00	NERR Technician removed erroneous data (probes out of water)
03/06/01 10:30 – 03/06/01 13:30	NERR Technician removed erroneous data (probes out of water)
03/06/01 22:30 – 03/07/01 00:30	NERR Technician removed erroneous data (probes out of water)
03/13/01 16:30 – 03/13/01 18:00	NERR Technician removed erroneous data (probes out of water)
03/14/01 05:30 – 03/14/01 06:30	NERR Technician removed erroneous data (probes out of water)
03/14/01 17:30 – 03/14/01 18:00	NERR Technician removed erroneous data (probes out of water)
03/15/01 19:00	NERR Technician removed erroneous data (probes out of water)
03/22/01 00:30 – 03/22/01 01:00	NERR Technician removed erroneous data (probes out of water)
03/25/01 02:30	NERR Technician removed erroneous data (probes out of water)
03/30/01 17:30 – 03/30/01 18:00	NERR Technician removed erroneous data (probes out of water)
03/31/01 18:30	NERR Technician removed erroneous data (probes out of water)
04/01/01 18:30 – 04/01/01 21:00	NERR Technician removed erroneous data (probes out of water)
04/03/01 21:30 – 04/03/01 23:30	NERR Technician removed erroneous data (probes out of water)
04/06/01 13:30	2003 Data Manager removed erroneous data (readings indicate that probes were out of the water)
04/07/01 01:30 – 04/07/01 03:00	NERR Technician removed erroneous data (probes out of water)
04/07/01 13:30 – 04/07/01 15:00	NERR Technician removed erroneous data (probes out of water)
04/08/01 02:00 – 04/08/01 03:30	NERR Technician removed erroneous data (probes out of water)
04/08/01 14:00 – 04/08/01 15:30	NERR Technician removed erroneous data (probes out of water)
04/09/01 03:00 – 04/09/01 04:30	NERR Technician removed erroneous data (probes out of water)
04/09/01 14:30 – 04/09/01 16:00	NERR Technician removed erroneous data (probes out of water)
04/10/01 04:00 – 04/10/01 05:00	NERR Technician removed erroneous data (probes out of water)
04/10/01 15:30 – 04/10/01 16:30	NERR Technician removed erroneous data (probes out of water)
04/13/01 17:30 – 04/13/01 18:30	NERR Technician removed erroneous data (probes out of water)

04/18/01 10:30	2003 Data Manager removed erroneous data (readings indicate that probes were out of the water)
04/20/01 12:00	2003 Data Manager removed erroneous data (readings indicate that probes were out of the water)
04/21/01 12:00 – 04/21/01 13:00	NERR Technician removed erroneous data (probes out of water)
04/22/01 00:30 – 04/22/01 02:00	NERR Technician removed erroneous data (probes out of water)
04/22/01 12:30 – 04/22/01 14:00	NERR Technician removed erroneous data (probes out of water)
04/23/01 01:00 – 04/23/01 02:30	NERR Technician removed erroneous data (probes out of water)
04/23/01 13:00 – 04/23/01 14:30	NERR Technician removed erroneous data (probes out of water)
04/24/01 02:00 – 04/24/01 03:30	NERR Technician removed erroneous data (probes out of water)
04/24/01 13:30 – 04/24/01 16:00	NERR Technician removed erroneous data (probes out of water)
04/25/01 02:30 – 04/25/01 04:30	NERR Technician removed erroneous data (probes out of water)
04/25/01 14:30 – 04/25/01 15:30	NERR Technician removed erroneous data (probes out of water)
04/26/01 16:00 – 04/26/01 16:30	Questionable Data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)
04/27/01 17:00	Questionable Data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)
04/28/01 17:30 – 04/28/01 18:00	Questionable Data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)
05/02/01 10:00	Questionable Data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)
05/03/01 11:00	Questionable Data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)
05/03/01 23:30	Questionable Data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)
05/04/01 11:30 – 05/04/01 12:00	Questionable Data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)
05/05/01 00:30 – 05/05/01 01:00	Questionable Data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)
05/05/01 12:30 – 05/05/01 13:00	Questionable Data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)
05/06/01 01:30 – 05/06/01 02:00	Questionable Data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)
05/06/01 13:30 – 05/06/01 14:00	Questionable Data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)
05/19/01 11:30	Questionable Data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)
05/20/01 12:00	Questionable Data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)
05/21/01 12:30 – 05/21/01 13:30	Questionable Data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)
05/22/01 01:30 – 05/22/01 02:00	Questionable Data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)
09/18/01 09:00 – 10/03/01 08:30	Questionable Data (instrument was not deployed at correct depth)
09/18/01 14:30 – 09/18/01 16:30	NERR Technician removed erroneous data (probes out of water)
09/19/01 03:00 – 09/19/01 05:00	NERR Technician removed erroneous data (probes out of water)
09/19/01 15:30 – 09/19/01 17:30	NERR Technician removed erroneous data (probes out of water)
09/20/01 03:00 – 09/20/01 06:00	NERR Technician removed erroneous data (probes out of water)
09/20/01 16:00 – 09/20/01 18:00	NERR Technician removed erroneous data (probes out of water)
09/21/01 04:00 – 09/21/01 06:30	NERR Technician removed erroneous data (probes out of water)
09/21/01 17:00 – 09/21/01 18:30	NERR Technician removed erroneous data (probes out of water)
09/22/01 04:30 – 09/22/01 07:00	NERR Technician removed erroneous data (probes out of water)
09/22/01 18:00 – 09/22/01 19:00	NERR Technician removed erroneous data (probes out of water)
09/23/01 05:30 – 09/23/01 07:30	NERR Technician removed erroneous data (probes out of water)
09/23/01 19:00 – 09/23/01 19:30	NERR Technician removed erroneous data (probes out of water)
09/24/01 06:30 – 09/24/01 08:00	NERR Technician removed erroneous data (probes out of water)

09/24/01 20:00 – 09/24/01 21:30	NERR Technician removed erroneous data (probes out of water)
09/25/01 07:00 – 09/25/01 09:30	NERR Technician removed erroneous data (probes out of water)
09/25/01 21:00 – 09/25/01 22:00	NERR Technician removed erroneous data (probes out of water)
09/26/01 09:00	NERR Technician removed erroneous data (probes out of water)
09/26/01 10:00	NERR Technician removed erroneous data (probes out of water)
09/26/01 22:00 – 09/26/01 23:00	NERR Technician removed erroneous data (probes out of water)
09/27/01 09:30 – 09/27/01 11:00	NERR Technician removed erroneous data (probes out of water)
09/27/01 22:30 – 09/28/01 00:00	NERR Technician removed erroneous data (probes out of water)
09/28/01 10:30 – 09/28/01 12:00	NERR Technician removed erroneous data (probes out of water)
09/29/01 00:00 – 09/29/01 00:30	NERR Technician removed erroneous data (probes out of water)
09/30/01 13:30	NERR Technician removed erroneous data (probes out of water)
10/18/01 12:00 – 11/02/01 09:00	Questionable Data (instrument was not deployed at correct depth)
10/18/01 15:30 – 10/18/01 16:30	NERR Technician removed erroneous data (probes out of water)
10/19/01 03:00 – 10/19/01 04:30	NERR Technician removed erroneous data (probes out of water)
10/19/01 16:30 – 10/19/01 17:30	NERR Technician removed erroneous data (probes out of water)
10/20/01 03:30 – 10/20/01 05:30	NERR Technician removed erroneous data (probes out of water)
10/20/01 16:30 – 10/20/01 18:00	NERR Technician removed erroneous data (probes out of water)
10/21/01 04:00 – 10/21/01 06:00	NERR Technician removed erroneous data (probes out of water)
10/21/01 17:30 – 10/21/01 18:30	NERR Technician removed erroneous data (probes out of water)
10/22/01 05:00 – 10/22/01 06:30	NERR Technician removed erroneous data (probes out of water)
10/22/01 18:30 – 10/22/01 19:00	NERR Technician removed erroneous data (probes out of water)
10/23/01 06:30 – 10/23/01 07:00	NERR Technician removed erroneous data (probes out of water)
10/23/01 19:30 – 10/23/01 20:00	NERR Technician removed erroneous data (probes out of water)
10/24/01 07:00 – 10/24/01 08:00	NERR Technician removed erroneous data (probes out of water)
10/24/01 20:30 – 10/24/01 21:30	NERR Technician removed erroneous data (probes out of water)
10/25/01 08:00 – 10/25/01 09:30	NERR Technician removed erroneous data (probes out of water)
10/25/01 21:00 – 10/25/01 22:30	NERR Technician removed erroneous data (probes out of water)
10/26/01 09:00 – 10/26/01 10:30	NERR Technician removed erroneous data (probes out of water)
10/26/01 21:30 – 10/27/01 00:00	NERR Technician removed erroneous data (probes out of water)
10/27/01 23:00 – 10/27/01 23:30	NERR Technician removed erroneous data (probes out of water)
10/30/01 00:30 – 10/30/01 01:00	NERR Technician removed erroneous data (probes out of water)
10/30/01 13:00 – 10/30/01 13:30	NERR Technician removed erroneous data (probes out of water)
10/31/01 01:00 – 10/31/01 01:30	NERR Technician removed erroneous data (probes out of water)
10/31/01 14:00	NERR Technician removed erroneous data (probes out of water)
11/01/01 01:30 – 11/01/01 02:00	2003 Data Manager removed erroneous data (readings indicate that probes were out of the water)
11/01/01 14:00 – 11/01/01 15:30	NERR Technician removed erroneous data (probes out of water)
11/02/01 01:30 – 11/02/01 03:00	NERR Technician removed erroneous data (probes out of water)
11/20/01 16:30	NERR Technician removed erroneous data (probes out of water)

**Dissolved Oxygen % and mg/L**

01/01/01 00:00 – 05/22/01 12:30	NERR Technician replaced PVC casing for sonde on 05/22/01, depth and dissolved oxygen data prior to this date may have been affected by heavy fouling within the pipe
06/30/01 23:30	NERR Technician removed erroneous data (negative values)
07/01/01 00:00 – 07/06/01 08:00	Questionable data (sensor was heavily fouled when retrieved, post-deployment reading(s) were about ½ the expected values)

**Depth**

01/01/01 00:00 – 05/22/01 12:30	NERR Technician replaced PVC casing for sonde on 05/22/01, depth and dissolved oxygen data prior to this date may have been affected by heavy fouling within the pipe
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**Turbidity**

02/16/01 10:30	Questionable data (negative reading(s), within known calibration error)
02/16/01 13:30	Questionable data (negative reading(s), within known calibration error)



03/08/01 07:30	Questionable data (negative reading(s), within known calibration error)
03/08/01 14:00	Questionable data (negative reading(s), within known calibration error)
03/08/01 19:30 – 03/08/01 20:00	Questionable data (negative reading(s), within known calibration error)
03/09/01 01:30 – 03/09/01 02:00	Questionable data (negative reading(s), within known calibration error)
03/09/01 08:30	Questionable data (negative reading(s), within known calibration error)
03/09/01 15:00	Questionable data (negative reading(s), within known calibration error)
03/09/01 20:30 – 03/09/01 21:00	Questionable data (negative reading(s), within known calibration error)
03/11/01 10:00	Questionable data (negative reading(s), within known calibration error)
03/11/01 16:30	Questionable data (negative reading(s), within known calibration error)
03/11/01 22:30	Questionable data (negative reading(s), within known calibration error)
03/12/01 11:00	Questionable data (negative reading(s), within known calibration error)
03/12/01 23:30	Questionable data (negative reading(s), within known calibration error)
05/12/01 14:00	Questionable data (reading(s) greater than 1000)
05/21/01 12:00	Questionable data (reading(s) greater than 1000)
07/15/01 06:30	Questionable data (reading(s) greater than 1000)
08/03/01 15:30	Questionable data (reading(s) greater than 1000)
08/06/01 04:30	Questionable data (reading(s) greater than 1000)
10/03/01 15:30	Questionable data (negative reading(s), within known calibration error)
10/03/01 21:00	Questionable data (negative reading(s), within known calibration error)
10/04/01 03:00 – 10/04/01 03:30	Questionable data (negative reading(s), within known calibration error)
10/04/01 09:30	Questionable data (negative reading(s), within known calibration error)
10/04/01 15:30 – 10/04/01 16:00	Questionable data (negative reading(s), within known calibration error)
10/04/01 17:00	Questionable data (negative reading(s), within known calibration error)
10/04/01 21:00 – 10/04/01 21:30	Questionable data (negative reading(s), within known calibration error)
10/05/01 10:00	Questionable data (negative reading(s), within known calibration error)
10/05/01 16:30 – 10/05/01 17:30	Questionable data (negative reading(s), within known calibration error)
10/05/01 18:30 – 10/05/01 19:30	Questionable data (negative reading(s), within known calibration error)
10/05/01 20:30	Questionable data (negative reading(s), within known calibration error)
10/05/01 21:30 – 10/05/01 22:30	Questionable data (negative reading(s), within known calibration error)
10/06/01 03:00 – 10/06/01 06:30	Questionable data (negative reading(s), within known calibration error)
10/06/01 11:00	Questionable data (negative reading(s), within known calibration error)
10/06/01 15:00	Questionable data (negative reading(s), within known calibration error)
10/06/01 17:30 – 10/06/01 19:00	Questionable data (negative reading(s), within known calibration error)
10/06/01 22:30 – 10/06/01 23:30:0	Questionable data (negative reading(s), within known calibration error)
10/07/01 03:30	Questionable data (negative reading(s), within known calibration error)
10/07/01 04:30 – 10/01/01 06:00	Questionable data (negative reading(s), within known calibration error)
10/01/01 07:00 – 10/07/01 07:30	Questionable data (negative reading(s), within known calibration error)
10/07/01 12:00	Questionable data (negative reading(s), within known calibration error)
10/07/01 18:00 – 10/07/01 20:30	Questionable data (negative reading(s), within known calibration error)
10/07/01 22:30 – 10/08/01 00:00	Questionable data (negative reading(s), within known calibration error)
10/08/01 05:00 – 10/08/01 06:00	Questionable data (negative reading(s), within known calibration error)
10/08/01 07:00	Questionable data (negative reading(s), within known calibration error)
10/08/01 12:30	Questionable data (negative reading(s), within known calibration error)
10/08/01 18:30 – 10/08/01 19:30	Questionable data (negative reading(s), within known calibration error)
10/08/01 21:00	Questionable data (negative reading(s), within known calibration error)
10/08/01 23:00	Questionable data (negative reading(s), within known calibration error)
10/09/01 00:00 – 10/09/01 01:30	Questionable data (negative reading(s), within known calibration error)
10/09/01 07:00	Questionable data (negative reading(s), within known calibration error)
10/09/01 08:00 – 10/09/01 08:30	Questionable data (negative reading(s), within known calibration error)
10/09/01 13:30	Questionable data (negative reading(s), within known calibration error)
10/09/01 19:30 – 10/09/01 22:00	Questionable data (negative reading(s), within known calibration error)
10/10/01 01:30 – 10/10/01 02:00	Questionable data (negative reading(s), within known calibration error)
10/10/01 07:00	Questionable data (negative reading(s), within known calibration error)
10/10/01 08:00	Questionable data (negative reading(s), within known calibration error)
10/10/01 09:00 – 10/10/01 10:00	Questionable data (negative reading(s), within known calibration error)
10/10/01 14:30	Questionable data (negative reading(s), within known calibration error)

10/10/01 21:00	Questionable data (negative reading(s), within known calibration error)
10/10/01 22:00	Questionable data (negative reading(s), within known calibration error)
10/11/01 01:30 – 10/11/01 03:00	Questionable data (negative reading(s), within known calibration error)
10/11/01 08:30 – 10/11/01 09:00	Questionable data (negative reading(s), within known calibration error)
10/11/01 15:30	Questionable data (negative reading(s), within known calibration error)
10/11/01 22:00 – 10/12/01 00:30	Questionable data (negative reading(s), within known calibration error)
10/12/01 03:30 – 10/12/01 04:30	Questionable data (negative reading(s), within known calibration error)
10/12/01 05:30	Questionable data (negative reading(s), within known calibration error)
10/12/01 10:00 – 10/12/01 10:30	Questionable data (negative reading(s), within known calibration error)
10/12/01 12:30	Questionable data (negative reading(s), within known calibration error)
10/12/01 14:00	Questionable data (negative reading(s), within known calibration error)
10/12/01 16:30 – 10/12/01 17:00	Questionable data (negative reading(s), within known calibration error)
10/12/01 22:00 – 10/13/01 01:00	Questionable data (negative reading(s), within known calibration error)
10/13/01 05:30	Questionable data (negative reading(s), within known calibration error)
10/13/01 05:30	Questionable data (negative reading(s), within known calibration error)
10/13/01 11:00 – 10/13/01 11:30	Questionable data (negative reading(s), within known calibration error)
10/13/01 12:30	Questionable data (negative reading(s), within known calibration error)
10/13/01 17:00 – 10/13/01 18:00	Questionable data (negative reading(s), within known calibration error)
10/13/01 22:00 – 10/13/01 22:30	Questionable data (negative reading(s), within known calibration error)
10/14/01 00:00 – 10/14/01 01:30	Questionable data (negative reading(s), within known calibration error)
10/14/01 05:30 – 10/14/01 06:30	Questionable data (negative reading(s), within known calibration error)
10/14/01 13:00 – 10/14/01 13:30	Questionable data (negative reading(s), within known calibration error)
10/14/01 17:30 – 10/14/01 18:30	Questionable data (negative reading(s), within known calibration error)
10/15/01 02:00 – 10/15/01 03:00	Questionable data (negative reading(s), within known calibration error)
10/15/01 07:30	Questionable data (negative reading(s), within known calibration error)
10/15/01 19:30	Questionable data (negative reading(s), within known calibration error)
10/16/01 02:30 – 10/16/01 03:00	Questionable data (negative reading(s), within known calibration error)
10/16/01 08:00	Questionable data (negative reading(s), within known calibration error)
10/16/01 19:30 – 10/16/01 20:00	Questionable data (negative reading(s), within known calibration error)
10/17/01 02:30 – 10/17/01 03:30	Questionable data (negative reading(s), within known calibration error)
10/17/01 09:00	Questionable data (negative reading(s), within known calibration error)
10/17/01 13:00	Questionable data (negative reading(s), within known calibration error)
10/17/01 15:30 – 10/17/01 16:30	Questionable data (negative reading(s), within known calibration error)
10/17/01 21:00	Questionable data (negative reading(s), within known calibration error)
10/18/01 00:00	Questionable data (negative reading(s), within known calibration error)
10/18/01 03:30 – 10/18/01 04:00	Questionable data (negative reading(s), within known calibration error)
10/18/01 10:00	Questionable data (negative reading(s), within known calibration error)
12/17/01 10:00	NERR Technician removed erroneous data (a turbidity spike occurred when a Hydrolab was deployed adjacent to the YSI sonde.

## 2002

### All Variables

01/17/02 14:30	Questionable Data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)
01/23/02 22:00 – 01/29/02 13:30	Files were adjusted as the time stamp was off by 29 seconds.
01/24/02 22:30	Questionable Data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)
01/28/02 01:30	NERR Technician removed erroneous data (probes out of water)
01/28/02 02:00	Questionable Data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)
01/28/02 14:30 – 01/28/02 15:00	Questionable Data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)
01/29/02	NERR Technician began wrapping bottom of sonde in a wet, white towel and transporting in a bucket with small amount of water upon retrieval, during post calibration of dissolved oxygen, and prior to deployment. Previous protocol involved using YSI-supplied calibration cup.

01/29/02 01:30	Questionable Data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)
01/29/02 02:00 - 01/29/02 02:30	NERR Technician removed erroneous data (probes out of water)
01/29/02 03:00	Questionable Data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)
01/29/02 15:30	Questionable Data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)
01/30/02 03:00	2003 Data Manager removed erroneous data (readings indicate that probes were out of the water)
01/30/02 03:30	NERR Technician removed erroneous data (probes out of water)
01/30/02 16:00 – 01/30/02 16:30	Questionable Data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)
02/01/02 05:00 – 02/01/02 05:30	Questionable Data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)
04/17/02 10:30 – 04/17/02 12:00	The sonde was not deployed at the proper depth at 10:25 EST, corrected at 12:00 EST (readings during this period were not taken at the depth stipulated by NERR protocol)
05/25/02	NERR Technician replaced the PVC sonde tube, heavy fouling may have effected some data prior to this date
06/28/02 11:00 – 07/31/02 12:30	The sonde was not at the proper depth during this deployment (use data with caution, erroneous data resulting from the probes coming out of the water were removed (see below), all other data were retained)
06/28/02 15:30 – 06/28/02 17:30	Questionable Data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)
06/29/02 05:00 – 06/29/02 06:30	Questionable Data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)
07/09/02 13:00 – 07/09/02 13:30	Questionable Data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)
07/10/02 02:30	Questionable Data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)
07/10/02 13:00 – 07/10/02 13:30	Questionable Data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)
07/10/02 14:00 – 07/10/02 14:30	NERR Technician removed erroneous data (probes out of water)
07/10/02 15:00	Questionable Data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)
07/11/02 02:30 - 07/11/02 03:00	Questionable Data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)
07/11/02 03:30	NERR Technician removed erroneous data (probes out of water)
07/11/02 04:00	Questionable Data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)
07/11/02 14:00 – 07/11/02 14:30	Questionable Data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)
07/11/02 15:00	NERR Technician removed erroneous data (probes out of water)
07/11/02 15:30	Questionable Data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)
07/12/02 15:00 – 07/12/02 15:30	Questionable Data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)
07/12/02 16:00	NERR Technician removed erroneous data (probes out of water)
07/12/02 16:30	Questionable Data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)
07/13/02 05:00 – 07/13/02 05:30	Questionable Data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)
07/13/02 16:00	Questionable Data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)
07/13/02 16:30 – 07/13/02 17:00	NERR Technician removed erroneous data (probes out of water)



07/20/02 12:00	Questionable Data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)
07/20/02 23:30	Questionable Data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)
07/21/02 00:00 – 07/21/02 00:30	NERR Technician removed erroneous data (probes out of water)
07/21/02 11:00	Questionable Data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)
07/21/02 11:30 – 07/21/02 12:30	NERR Technician removed erroneous data (probes out of water)
07/22/02 01:00	Questionable Data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)
07/22/02 12:30	NERR Technician removed erroneous data (probes out of water)
07/22/02 13:00	Questionable Data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)
07/23/02 02:00	Questionable Data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)
07/23/02 13:00 – 07/23/02 14:00	NERR Technician removed erroneous data (probes out of water)
07/23/02 14:30	Questionable Data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)
07/24/02 02:00	Questionable Data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)
07/24/02 02:30 – 07/24/02 03:00	NERR Technician removed erroneous data (probes out of water)
07/24/02 13:00	Questionable Data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)
07/24/02 13:30 – 07/24/02 15:00	NERR Technician removed erroneous data (probes out of water)
07/25/02 02:30	Questionable Data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)
07/25/02 03:00 – 07/25/02 03:30	NERR Technician removed erroneous data (probes out of water)
07/25/02 04:00	Questionable Data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)
07/25/02 14:00	Questionable Data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)
07/25/02 14:30 – 07/25/02 15:30	NERR Technician removed erroneous data (probes out of water)
07/25/02 16:00	Questionable Data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)
07/26/02 03:00	Questionable Data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)
07/26/02 03:30 – 07/26/02 04:30	NERR Technician removed erroneous data (probes out of water)
07/26/02 15:00 – 07/26/02 16:00	Questionable Data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)
07/27/02 04:00	Questionable Data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)
07/27/02 04:30	NERR Technician removed erroneous data (probes out of water)
07/27/02 05:00	Questionable Data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)
07/27/02 16:00 – 07/27/02 17:00	Questionable Data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)
07/28/02 04:30 – 07/28/02 05:30	Questionable Data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)
07/29/02 05:00	Questionable Data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)
07/29/02 05:30	NERR Technician removed erroneous data (probes out of water)
07/29/02 06:00	Questionable Data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)
07/29/02 17:30	Questionable Data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)

07/30/02 05:30 – 07/30/02 6:30	Questionable Data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)
07/31/02 06:30	Questionable Data (negative depth reading(s), probes may have been out of the water, reading(s) for other parameters appear reasonable)
07/31/02 13:00 – 08/15/02 12:30	The sonde was not at the proper depth during this deployment (readings were not taken at the depth stipulated by NERR protocol)
10/10/02 12:00 – 10/28/02 12:00	The sonde was not at the proper depth during this deployment (readings were not taken at the depth stipulated by NERR protocol)

**Specific Conductivity**

06/11/02 18:00 – 06/17/02 13:00	NERR Technician removed erroneous data (conductivity probe was completely occluded by sea squirts upon retrieval, all affected parameters were removed)
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**Salinity**

06/11/02 18:00 – 06/17/02 13:00	NERR Technician removed erroneous data (conductivity probe was completely occluded by sea squirts upon retrieval, all affected parameters were removed)
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**Dissolved Oxygen %**

02/24/02 13:00 – 03/05/02 13:00	NERR Technician removed erroneous data (possible membrane puncture or bubble under membrane, readings fell quickly to extremely low values (-37.8%), deleted from most likely point of failure)
03/04/02	NERR Technician changed probe warm-up period to 60 seconds
05/09/02 12:30 – 05/15/02 10:00	Questionable data (readings dropped below 20% and remained low throughout deployment, post calibration DO was 47.0% and the probe was heavily fouled with mud and algae, use data with caution)
06/11/02 – 06/17/02 13:00	Questionable data beginning around 6/11/02 (heavy fouling may have caused reduced DO measurements during this period, large discrepancy between last reading of deployment and first reading of new deployment, use with caution)

**Dissolved Oxygen mg/L**

02/24/02 13:00 – 03/05/02 13:00	NERR Technician removed erroneous data (possible membrane puncture or bubble under membrane, readings fell quickly to extremely low values (-37.8%), deleted from most likely point of failure)
03/04/02	NERR Technician changed probe warm-up period to 60 seconds
05/09/02 12:30 – 05/15/02 10:00	Questionable data (readings dropped below 20% and remained low throughout deployment, post calibration DO was 47.0% and the probe was heavily fouled with mud and algae, use data with caution)
06/11/02 18:00 – 06/17/02 13:00	2003 Data Manager removed erroneous data (conductivity probe was completely occluded by sea squirts upon retrieval, all affected parameters were removed)

**Depth**

06/11/02 18:00 – 06/17/02 13:00	2003 Data Manager removed erroneous data (conductivity probe was completely occluded by sea squirts upon retrieval, all affected parameters were removed)
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**Turbidity**

02/06/02 10:00 – 02/06/02 10:30	Questionable data (negative reading(s), within known calibration error)
02/06/02 16:30	Questionable data (negative reading(s), within known calibration error)
02/28/02	NERR Technician began using new YSI-approved turbidity standard to calibrate
03/26/02 19:30	Questionable data (reading(s) greater than 1000)
03/27/02 02:00	Questionable data (reading(s) greater than 1000)
03/27/02 21:30	Questionable data (reading(s) greater than 1000)
04/29/02 23:00	Questionable data (reading(s) greater than 1000)
05/10/02 05:00	Questionable data (reading(s) greater than 1000)
06/29/02 12:00	Questionable data (negative reading(s), within known calibration error)





08/14/02 07:30	Questionable data (negative reading(s), within known calibration error)
08/14/02 15:00	Questionable data (negative reading(s), within known calibration error)
08/15/02 02:00 – 08/15/02 02:30	Questionable data (negative reading(s), within known calibration error)
08/15/02 08:00	Questionable data (negative reading(s), within known calibration error)
08/15/02 09:00	Questionable data (negative reading(s), within known calibration error)
08/16/02 14:00 – 08/29/02 14:00	Turbidity unit was not calibrated prior to this deployment, suspected problem with the APS turbidity standard.
08/16/02 16:00 – 08/16/02 17:00	Questionable data (negative reading(s), within known calibration error)
08/17/02 04:00 – 08/17/02 05:00	Questionable data (negative reading(s), within known calibration error)
08/17/02 23:00	Questionable data (negative reading(s), within known calibration error)
08/18/02 04:30 – 08/18/02 05:00	Questionable data (negative reading(s), within known calibration error)
08/18/02 09:30 – 08/18/02 11:00	Questionable data (negative reading(s), within known calibration error)
08/18/02 17:30	Questionable data (negative reading(s), within known calibration error)
08/18/02 18:30	Questionable data (negative reading(s), within known calibration error)
08/19/02 00:00 – 08/19/02 00:30	Questionable data (negative reading(s), within known calibration error)
08/19/02 05:30 – 08/19/02 06:00	Questionable data (negative reading(s), within known calibration error)
08/19/02 11:30	Questionable data (negative reading(s), within known calibration error)
08/20/02 01:00 – 08/20/02 02:00	Questionable data (negative reading(s), within known calibration error)
08/20/02 07:00	Questionable data (negative reading(s), within known calibration error)
08/20/02 12:30 – 08/20/02 13:00	Questionable data (negative reading(s), within known calibration error)
08/21/02 01:00 – 08/21/02 02:00	Questionable data (negative reading(s), within known calibration error)
08/21/02 07:30	Questionable data (negative reading(s), within known calibration error)
08/21/02 13:00 – 08/21/02 13:30	Questionable data (negative reading(s), within known calibration error)
08/21/02 20:00	Questionable data (negative reading(s), within known calibration error)
08/21/02 21:30 – 08/21/02 22:30	Questionable data (negative reading(s), within known calibration error)
08/22/02 02:00	Questionable data (negative reading(s), within known calibration error)
08/22/02 08:30 – 08/22/02 09:30	Questionable data (negative reading(s), within known calibration error)
08/22/02 14:00 – 08/22/02 14:30	Questionable data (negative reading(s), within known calibration error)
08/22/02 21:00	Questionable data (negative reading(s), within known calibration error)
08/22/02 22:00	Questionable data (negative reading(s), within known calibration error)
08/23/02 03:30	Questionable data (negative reading(s), within known calibration error)
08/23/02 09:00 – 08/23/02 09:30	Questionable data (negative reading(s), within known calibration error)
08/24/02 02:30 – 08/24/02 03:30	Questionable data (negative reading(s), within known calibration error)
08/24/02 04:00	Questionable data (negative reading(s), within known calibration error)
08/24/02 10:00 – 08/24/02 10:30	Questionable data (negative reading(s), within known calibration error)
08/24/02 15:30 – 08/24/02 16:00	Questionable data (negative reading(s), within known calibration error)
08/25/02 02:30 – 08/25/02 04:00	Questionable data (negative reading(s), within known calibration error)
08/25/02 05:00	Questionable data (negative reading(s), within known calibration error)
08/25/02 09:30 – 08/25/02 11:00	Questionable data (negative reading(s), within known calibration error)
08/25/02 21:30 – 08/25/02 22:30	Questionable data (negative reading(s), within known calibration error)
08/25/02 23:30	Questionable data (negative reading(s), within known calibration error)
08/26/02 04:30	Questionable data (negative reading(s), within known calibration error)
08/26/02 05:30	Questionable data (negative reading(s), within known calibration error)
08/26/02 09:30	Questionable data (negative reading(s), within known calibration error)
08/26/02 11:30	Questionable data (negative reading(s), within known calibration error)
08/26/02 16:30	Questionable data (negative reading(s), within known calibration error)
08/26/02 22:30 – 08/26/02 23:00	Questionable data (negative reading(s), within known calibration error)
08/27/02 00:00 – 08/27/02 01:30	Questionable data (negative reading(s), within known calibration error)
08/27/02 04:30 – 08/27/02 06:00	Questionable data (negative reading(s), within known calibration error)
08/27/02 11:00 – 08/27/02 11:30	Questionable data (negative reading(s), within known calibration error)
08/27/02 12:30	Questionable data (negative reading(s), within known calibration error)
08/27/02 13:30	Questionable data (negative reading(s), within known calibration error)
08/27/02 22:30 – 08/27/02 23:00	Questionable data (negative reading(s), within known calibration error)
08/28/02 00:00 – 08/28/02 01:30	Questionable data (negative reading(s), within known calibration error)
08/29/02 01:30	Questionable data (negative reading(s), within known calibration error)
10/13/02 12:00	Questionable data (reading(s) greater than 1000)

11/11/02 05:00

Questionable data (reading(s) greater than 1000)